

Wendy Chan

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APPOINTMENTS

2016 - Present *Assistant Professor of Education*, Graduate School of Education, University of Pennsylvania

EDUCATION

2011 – 2016 Ph.D., Statistics, Northwestern University
Dissertation: Extensions to the Generalizability of Experiments in the Social Sciences
Dissertation Committee: Larry V. Hedges, Bruce D. Spencer, and Hongmei Jiang

2008 – 2010 M.Ed., Mathematics Education, Lehman College, City University of New York
Thesis: Conceptual Challenges in the Transition to Algebra for Middle School Students
Thesis Advisor: Pauline Mattis, Ed.D.

2004 – 2008 B.A., Economics and Mathematics, Barnard College, Columbia University (*magna cum laude*)
Minor in Physics

2006 Shanghai Jiaotong University, Shanghai, People's Republic of China
Semester abroad in Shanghai Business Internship Program of Columbia University

FELLOWSHIPS, AWARDS AND HONORS

2015 – 2016 Northwestern University Fellowship

2004 – 2008 British Petroleum Scholarship, Barnard College

2004 – 2008 Dean's List, Barnard College

RESEARCH FUNDING

2017 – 2018 **Principal Investigator**, Assessing the Role of Covariates and Matching in Improving Bounds for Generalization and in Understanding Generalizations Over Time. Spencer Foundation.
Funding: \$36,033.50.

2017 – 2018 **Principal Investigator**, Assessing the Role of Administrative Data in Improving Generalizations from Experimental Studies. University Research Foundation, University of Pennsylvania.
Funding: \$43,495.00.

PEER REVIEWED PUBLICATIONS

(† indicates co-first author)

1. **Chan, W.** (2017+). Applications of Small Area Estimation to Generalization with Subclassification by Propensity Scores. *Journal of Educational and Behavioral Statistics*.
2. **Chan, W.** (2017). Partially Identified Treatment Effects for Generalizability. *Journal of Research on Educational Effectiveness*, 10(3), 646 – 669.
3. Tipton, E., Hallberg, K., Hedges, L.V., and **Chan, W.** (2016). Implications of small samples for generalization: Adjustments and rules of thumb. Special issue of *Evaluation Review*. doi:10.1177/0193841X16655665.

4. Kang, J., **Chan, W.**[†], Kim, M.O., and Steiner, P.M. (2016). Practice of Causal Inference with the Propensity of Being Zero or One: Assessing the Effect of Arbitrary Cutoffs of Propensity Scores. *Communications for Statistical Applications and Methods*, 23(1), 1–20.

UNDER REVIEW

Chan, W. The Relation Between Power for Continuous and Binomial Outcomes in Cluster Randomized Trials. (Revision Under Review)

WORKING PAPERS

Hedges, L.V. and **Chan, W.** The Impact of Downstream Clustering in Longitudinal Studies.

PRESENTATIONS

2017

Chan, W. Bounding Approaches for Generalization. Paper to be presented at the Association for Public Policy Analysis & Management (APPAM) Conference. Chicago, IL.

Chan, W. The Relation Between Power for Continuous and Binomial Outcomes in Cluster Randomized Trials. Poster presented at the Joint Statistical Meetings. Baltimore, MD.

Chan, W. Bounds for Treatment Effects with Applications to Generalizability. Invited paper presented at the International Chinese Statistical Association Applied Statistics Symposium. Chicago, IL.

Chan, W. Small Area Estimates of the Average Treatment Effect with Applications to Generalizability. Paper presented at the American Educational Research Association Annual Meeting. San Antonio, TX.

Chan, W. Applications of Small Area Estimation to the Generalizability of Experiments with Small Sample Sizes. Paper presented at the Society for Research in Educational Effectiveness. Washington, D.C.

2016

Chan, W. Partial Identification of Treatment Effects: Applications to Generalizability. Paper presented at the Spring Meeting of the Society for Research on Educational Effectiveness. Washington, DC.

2015

Tipton, E., Hallberg, K., Hedges, L.V., & **Chan, W.** Implications of Small Samples for Generalization: Adjustments and Rules of Thumb. Paper presented at the Spring Meeting of the Society for Research on Educational Effectiveness. Washington, DC.

2014

Kang, J. & **Chan, W.** Practice of Causal Inference with the Propensity of Being Zero or One. Paper presented at the Joint International Chinese Statistical Association-Korean International Statistical Society Applied Statistics Symposium. Portland, OR.

PROFESSIONAL EXPERIENCE

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| 2012 – 2016 | Graduate Research Assistant, <i>Institute for Policy Research, Northwestern University</i> |
| 2014 – 2016 | Statistical Consultant, <i>Feinberg School of Medicine, Northwestern University</i> |
| 2005 – 2008 | Research Assistant for Professor Alan Dye, <i>Department of Economics, Barnard College</i> |
| 2005 – 2006 | Research Assistant, <i>Department of Psychology, Barnard College</i> |

TEACHING (* courses I proposed)

University of Pennsylvania

- Fall 2017 Methods and Designs for Educational Research (ED 545) *
- Spring 2017 Advanced Topics in Impact Evaluation (ED 871; Co-Instructor with Robert Boruch)
- 2016 – Present Introductory Statistics for Education Research (ED 667)

Northwestern University

- Fall 2015 Introduction to Statistics (STAT 202), *Instructor*
- Spring 2015 Hierarchical Linear Models (STAT 356), *Teaching Assistant*
- 2014 – 2015 Introduction to Statistics (STAT 202), *Teaching Assistant*
- Winter 2014 Probability and Statistics (STAT 383), *Teaching Assistant*
- Fall 2014 Human Rights Statistics (STAT 370), *Guest Lecturer and Teaching Assistant*
- Fall 2013 Survey Sampling (STAT 325), *Guest Lecturer*
- Fall 2013 Introductory Statistics for the Social Sciences (STAT 210), *Teaching Assistant*

Summer Institute in Randomized Trials for Established Researchers, Northwestern University

- Summer 2014 Consultant/Group Facilitator for break-out groups
- Summer 2013 Consultant/Group Facilitator for break-out groups

Teach for America

- 2008 – 2011 Teacher of Arithmetic and Algebra

Columbia University

- Spring 2007 Introduction to Statistics (STAT W1111), *Teaching Assistant*

PROFESSIONAL SERVICE

- 2017 – Present *Committee Member*, Executive Committee, Graduate School of Education, University of Pennsylvania
- 2017 – 2018 *Proposal Reviewer*, American Educational Research Association, Quantitative Methods and Statistical Theory (Division D) and Research, Evaluation and Assessment in Schools (Division H)
- 2017 – 2018 *Session Proposal Reviewer*, Society for Research on Educational Effectiveness Spring Meeting
- 2016 – Present *Referee*, Campbell Collaboration Systematic Reviews, *Journal of Research on Educational Effectiveness*, *Evaluation Review*, *Action in Teacher Education*
- 2016 *Proposal Reviewer*, Robert Wood Johnson Foundation
- 2015 – 2016 *Colloquium Organizer*, Institute for Policy Research Q-Center, Northwestern University
- 2014 – 2015 *Colloquium Organizer*, Graduate Women Across Northwestern, Northwestern University

PROFESSIONAL MEMBERSHIPS

- Society for Research on Educational Effectiveness (SREE)
- Campbell Collaboration Methods Group
- American Educational Research Association (AERA)
- American Statistical Association (ASA)
- Association for Public Policy Analysis & Management (APPAM)
- International Chinese Statistical Association (ICSA)